P.6

RAW SEQUENCE LISTING DATE: 05/15/2002
PATENT APPLICATION: **US/09/825,242C** TIME: 16:24:44

Input Set : **A:\SUB19496-18.APP**
Output Set: **N:\CRF3\05152002\I825242C.raw**

```
  3 <110> APPLICANT: Eisenberg, Stephen P.
  4       Case, Casey C.
  5       Cox III, George N.
  6       Jamieson, Andrew
  7       Rebar, Edward J.
  8       Sangamo Biosciences, Inc.
 10 <120> TITLE OF INVENTION: Selection of Sites for Targeting by Zinc Finger
 11       Proteins and Methods of Designing Zinc Finger Proteins
 12       to Bind to Preselected Sites
 14 <130> FILE REFERENCE: 019496-001810US
 16 <140> CURRENT APPLICATION NUMBER: US 09/825,242C
 17 <141> CURRENT FILING DATE: 2001-04-02
 19 <160> NUMBER OF SEQ ID NOS: 97
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 25
 25 <212> TYPE: PRT
 26 <213> ORGANISM: Artificial Sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Description of Artificial Sequence:exemplary motif
 30       characterizing the C-2H-2 class of zinc finger
 31       proteins (ZFP)
 33 <220> FEATURE:
 34 <221> NAME/KEY: MOD_RES
 35 <222> LOCATION: (1)..(25)
 36 <223> OTHER INFORMATION: Xaa = any amino acid
 38 <220> FEATURE:
 39 <221> NAME/KEY: MOD_RES
 40 <222> LOCATION: (4)..(5)
 41 <223> OTHER INFORMATION: Xaa = any amino acid, may be present or absent
 43 <220> FEATURE:
 44 <221> NAME/KEY: MOD_RES
 45 <222> LOCATION: (23)..(24)
 46 <223> OTHER INFORMATION: Xaa = any amino acid, may be present or absent
 48 <400> SEQUENCE: 1
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 50   1               5                  10                  15
W--> 52 Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
 53              20                  25
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 57 <211> LENGTH: 5
 58 <212> TYPE: PRT
 59 <213> ORGANISM: Artificial Sequence
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61 <220> FEATURE:
62 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide linker
64 <400> SEQUENCE: 2
65 Thr Gly Glu Lys Pro
66 1 5
69 <210> SEQ ID NO: 3
70 <211> LENGTH: 5
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide linker
77 <400> SEQUENCE: 3
78 Gly Gly Gly Gly Ser
79 1 5
82 <210> SEQ ID NO: 4
83 <211> LENGTH: 8
84 <212> TYPE: PRT
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide linker
90 <400> SEQUENCE: 4
91 Gly Gly Arg Arg Gly Gly Gly Ser
92 1 5
95 <210> SEQ ID NO: 5
96 <211> LENGTH: 9
97 <212> TYPE: PRT
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide linker
103 <400> SEQUENCE: 5
104 Leu Arg Gln Arg Asp Gly Glu Arg Pro
105 1 5
108 <210> SEQ ID NO: 6
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110 <212> TYPE: PRT
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide linker
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117 Leu Arg Gln Lys Asp Gly Gly Gly Ser Glu Arg Pro
118 1 5 10
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126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide linker
129 <400> SEQUENCE: 7
130 Leu Arg Gln Lys Asp Gly Gly Gly Ser Gly Gly Gly Ser Glu Arg Pro

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```
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134 <210> SEQ ID NO: 8
135 <211> LENGTH: 85
136 <212> TYPE: PRT
137 <213> ORGANISM: Mus sp.
139 <220> FEATURE:
140 <223> OTHER INFORMATION: DNA binding domain of mouse transcription factor
141       Zif268
143 <400> SEQUENCE: 8
144 Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp
145   1               5                   10                  15
147 Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe Gln
148             20                  25                  30
150 Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr Thr
151          35                  40                  45
153 His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys
154      50                  55                  60
156 Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Thr Lys Ile
157  65                  70                  75                  80
159 His Leu Arg Gln Lys
160                 85
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 94
165 <212> TYPE: PRT
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Description of Artificial Sequence:amino acids
170       531-624 in Sp-1 transcription factor
172 <400> SEQUENCE: 9
173 Pro Gly Lys Lys Lys Gln His Ile Cys His Ile Gln Gly Cys Gly Lys
174   1               5                   10                  15
176 Val Tyr Gly Lys Thr Ser His Leu Arg Ala His Leu Arg Trp His Thr
177             20                  25                  30
179 Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly Lys Arg Phe
180          35                  40                  45
182 Thr Arg Ser Asp Glu Leu Gln Arg His Lys Arg Thr His Thr Gly Glu
183      50                  55                  60
185 Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met Arg Ser Asp
186  65                  70                  75                  80
188 His Leu Ser Lys His Ile Lys Thr His Gln Asn Lys Lys Gly
189                 85                  90
192 <210> SEQ ID NO: 10
193 <211> LENGTH: 98
194 <212> TYPE: PRT
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Description of Artificial Sequence:Sp-1
199       transcription factor consensus sequence
201 <400> SEQUENCE: 10
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Input Set : **A:\SUB19496-18.APP**
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202 Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
203 1 5 10 15
205 His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Lys Ser Ser His Leu
206 20 25 30
208 Arg Ala His Gln Arg Thr His Thr Gly Glu Arg Pro Tyr Lys Cys Pro
209 35 40 45
211 Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Gln Arg His Gln
212 50 55 60
214 Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
215 65 70 75 80
217 Ser Phe Ser Arg Ser Asp His Leu Ser Lys His Gln Arg Thr His Gln
218 85 90 95
220 Asn Lys
223 <210> SEQ ID NO: 11
224 <211> LENGTH: 10
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Description of Artificial Sequence:natural Zif268
230 binding site
232 <400> SEQUENCE: 11
233 gcgtgggcgc 10
236 <210> SEQ ID NO: 12
237 <211> LENGTH: 10
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence:target site
244 containing three D-able subsites
W--> 246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: (1)...(10)
248 <223> OTHER INFORMATION: n is a, c, g, or t
W--> 250 <400> 12
W--> 251 ggntgnggnn 10
254 <210> SEQ ID NO: 13
255 <211> LENGTH: 10
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Description of Artificial Sequence:target site
261 with two overlapping D-able subsites
W--> 263 <221> NAME/KEY: misc_feature
264 <222> LOCATION: (1)...(10)
265 <223> OTHER INFORMATION: n is a, c, g, or t
W--> 267 <400> 13
W--> 268 nngkngknnn 10
271 <210> SEQ ID NO: 14
272 <211> LENGTH: 10
273 <212> TYPE: DNA

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Input Set : **A:\SUB19496-18.APP**
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274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Description of Artificial Sequence:target site
278 with three overlapping D-able subsites
W--> 280 <221> NAME/KEY: misc_feature
281 <222> LOCATION: (1)...(10)
282 <223> OTHER INFORMATION: n is a, c, g, or t
W--> 284 <400> 14
W--> 285 nngkngkngk **10**
288 <210> SEQ ID NO: 15
289 <211> LENGTH: 22
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Description of Artificial Sequence:target site DNA
295 motif searched by protocol 1
W--> 297 <221> NAME/KEY: modified_base
298 <222> LOCATION: (1)...(22)
299 <223> OTHER INFORMATION: n is g, a, c or t
W--> 301 <221> modified_base
302 <222> LOCATION: (10)..(12)
303 <223> OTHER INFORMATION: n = g, a, c or t, may be present or absent
W--> 305 <400> 15
W--> 306 gnggnngnnn nngnggnngn nn **22**
309 <210> SEQ ID NO: 16
310 <211> LENGTH: 23
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence:target site DNA
316 motif searched by protocol 1
318 <220> FEATURE:
319 <221> NAME/KEY: modified_base
320 <222> LOCATION: (1)..(23)
321 <223> OTHER INFORMATION: n = g, a, c or t
323 <220> FEATURE:
324 <221> NAME/KEY: modified_base
325 <222> LOCATION: (11)..(13)
326 <223> OTHER INFORMATION: n = g, a, c or t, may be present or absent
328 <400> SEQUENCE: 16
W--> 329 gnggnngnnn nnngnggnng nnn **23**
332 <210> SEQ ID NO: 17
333 <211> LENGTH: 22
334 <212> TYPE: DNA
335 <213> ORGANISM: Artificial Sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Description of Artificial Sequence:target site DNA
339 motif searched by protocol 1
341 <220> FEATURE:

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Input Set : A:\SUB19496-18.APP
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,3,4,5,7,8,9,10,11,12,13,14,15,16,17,18,20,21,22,23,24
Seq#:12; N Pos. 3,6,9,10
Seq#:13; N Pos. 1,2,5,8,9,10
Seq#:14; N Pos. 1,2,5,8
Seq#:15; N Pos. 2,5,6,8,9,10,11,12,14,17,18,20,21,22
Seq#:16; N Pos. 2,5,6,8,9,10,11,12,13,15,18,19,21,22,23
Seq#:17; N Pos. 2,5,6,8,9,10,11,12,14,15,17,20,21,22
Seq#:18; N Pos. 2,5,6,8,9,10,11,12,13,15,16,18,21,22,23
Seq#:19; N Pos. 2,5,6,8,9,10,11,12,14,17,18,20
Seq#:20; N Pos. 2,5,6,8,9,10,11,12,13,15,18,19,21
Seq#:21; N Pos. 2,3,5,8,9,10,11,12,14,17,18,20,21,22
Seq#:22; N Pos. 2,3,5,8,9,10,11,12,13,15,18,19,21,22,23
Seq#:23; N Pos. 2,3,5,8,9,10,11,12,14,15,17,20,21,22
Seq#:24; N Pos. 2,3,5,8,9,10,11,12,13,15,16,18,21,22,23
Seq#:25; N Pos. 2,3,5,8,9,10,11,12,14,17,18,20
Seq#:26; N Pos. 2,3,5,8,9,10,11,12,13,15,18,19,21
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Seq#:29; N Pos. 2,3,5,6,8,11,12,13,15,16,18,21,22,23
Seq#:30; N Pos. 2,3,5,6,8,11,12,13,14,16,17,19,22,23,24
Seq#:31; N Pos. 2,3,5,6,8,11,12,13,15,18,19,21
Seq#:32; N Pos. 2,3,5,6,8,11,12,13,14,16,19,20,22
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Seq#:36; N Pos. 2,5,6,8,9,10,11,12,14,17,18,20,21,22
Seq#:37; N Pos. 2,5,6,8,9,10,11,12,13,15,18,19,21,22,23
Seq#:38; N Pos. 2,5,6,8,9,10,11,12,14,15,17,20,21,22
Seq#:39; N Pos. 2,5,6,8,9,10,11,12,13,15,16,18,21,22,23
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Seq#:42; N Pos. 2,3,5,8,9,10,11,12,14,17,18,20,21,22
Seq#:43; N Pos. 2,3,5,8,9,10,11,12,13,15,18,19,21,22,23
Seq#:44; N Pos. 2,3,5,8,9,10,11,12,14,15,17,20,21,22
Seq#:45; N Pos. 2,3,5,8,9,10,11,12,13,15,16,18,21,22,23
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Seq#:52; N Pos. 2,3,5,6,8,11,12,14,15,17,18,20
Seq#:53; N Pos. 2,3,5,6,8,11,12,13,15,16,18,19,21
Seq#:54; N Pos. 2,3,5,6,8,11,14,15,17,18,19

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Seq#:56; N Pos. 2,3,5,6,8,11,12,14,15,17
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Seq#:61; N Pos. 2,5,6,8,9,10,11,12,14,15,17,18,20
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Seq#:63; N Pos. 2,3,5,8,9,10,11,12,14,17,18,20,21,22
Seq#:64; N Pos. 2,3,5,8,9,10,11,12,13,15,18,19,21,22,23
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Seq#:66; N Pos. 2,3,5,8,9,10,11,12,13,15,16,18,21,22,23
Seq#:67; N Pos. 2,3,5,8,9,10,11,12,14,15,17,18,20
Seq#:68; N Pos. 2,3,5,8,9,10,11,12,13,15,16,18,19,21
Seq#:69; N Pos. 2,3,5,6,8,11,12,14,17,18,20,21,22
Seq#:70; N Pos. 2,3,5,6,8,11,12,13,15,18,19,21,22,23
Seq#:71; N Pos. 2,3,5,6,8,11,12,14,15,17,20,21,22
Seq#:72; N Pos. 2,3,5,6,8,11,12,13,15,16,18,21,22,23
Seq#:73; N Pos. 2,3,5,6,8,11,12,14,15,17,18,20
Seq#:74; N Pos. 2,3,5,6,8,11,12,13,15,16,18,19,21
Seq#:75; N Pos. 2,3,5,6,8,11,14,15,17,18,19
Seq#:76; N Pos. 2,3,5,6,8,11,12,14,17,18,19
Seq#:77; N Pos. 2,3,5,6,8,11,12,14,15,17
Seq#:87; N Pos. 10

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1

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Input Set : **A:\SUB19496-18.APP**
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L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16
L:246 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:250 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12
L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:263 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:267 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:280 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:284 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:297 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:301 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:15
L:305 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:15
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
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L:751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:1004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1027 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:1050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
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Output Set: **N:\CRF3\05152002\I825242C.raw**

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L:1096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:1165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:1183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:1201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:1219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:1242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:1265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:1288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0